

## **Ways to increase the use of photosynthetic active radiation by early ripening varieties of potato in Middle Volga Region, Russia**

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### **Abstract**

Efficiency of fertilizers calculated doses application on planned harvest of early ripening varieties of potato has been studied. The study of potato leaves surface formation, leaf photosynthetic potential, photosynthetic active radiation use factor dynamics on grey forest soils of Middle Volga region forest-steppe showed its dependence on mineral nutrition level. Fertilizers effect on productivity and tubers quality of Sprint and Zhukovsky early ripening varieties of potato is established.

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### **Keywords**

Leaves surface, Nitrates, PAR use factor, Photosynthetic potential (PP), Potato, Productivity, Starch, Vitamin C